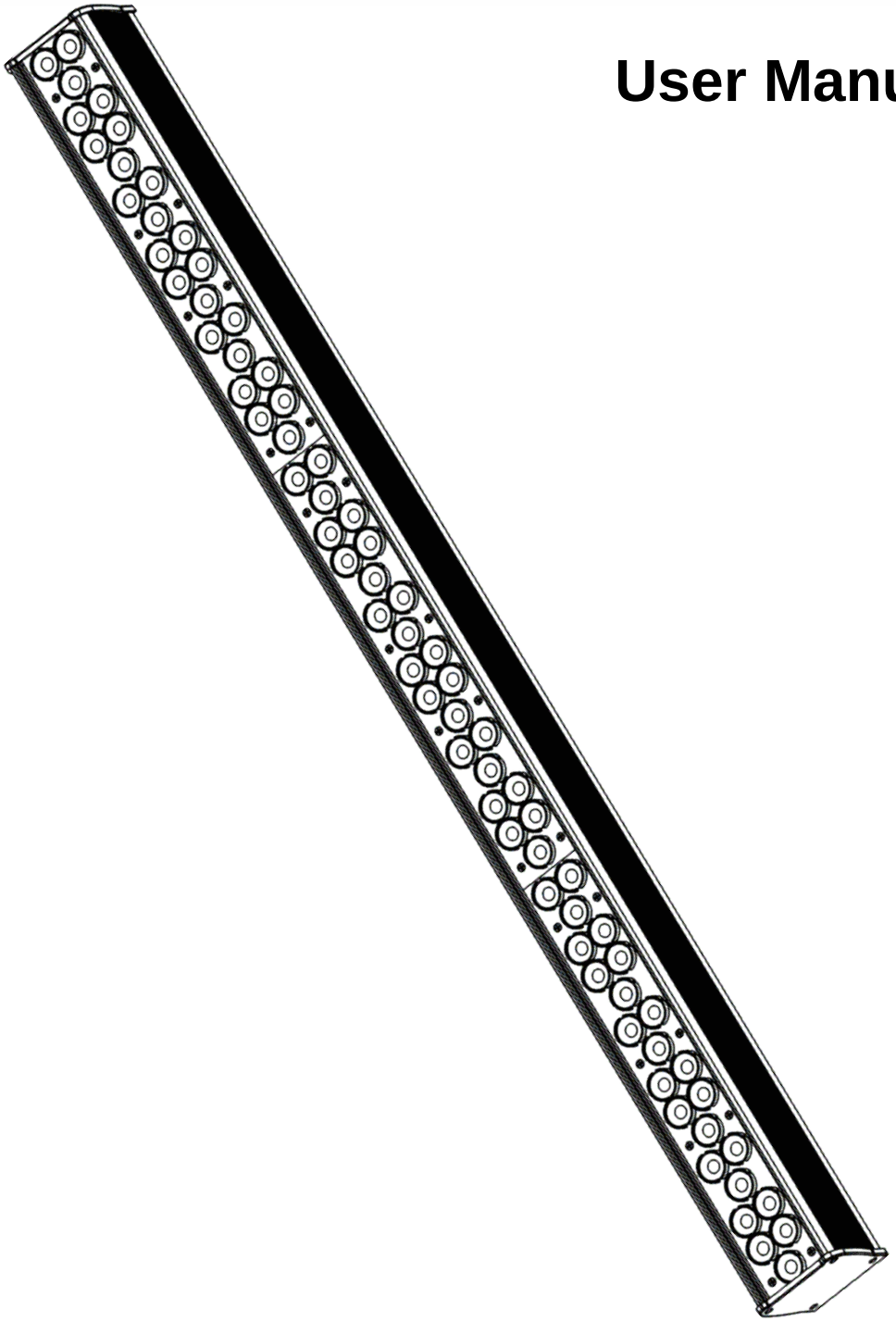
COLORADO™ BATTEN 72 TOUR



User Manual

CHAUVET®

Edition Notes

The COLORado™ Batten 72 Tour User Manual Rev. 01d covers the description, safety precautions, installation, programming, operation, and maintenance of the COLORado™ Batten 72 Tour fixture (SW Ver. 1.3). CHAUVET® released this edition of the COLORado™ Batten 72 Tour User Manual Rev. 01d in August 2010.

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For better results, print this document in color, on letter size paper (8.5 x 11 inches), double sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content of this document to A4 paper.

Intended Audience

Any person in charge of installing, operating, and/or maintaining the COLORado™ Batten 72 Tour should read the guide that shipped with it as well as this manual in their entirety before installing, operating, or maintaining this product.

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Document Revision

The COLORado™ Batten 72 Tour User Manual Rev. 01d supersedes all previous versions of this manual. Please discard any older versions of this manual you may have, whether in printed or electronic format, and replace them with this version.

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Product at a Glance

Use on Dimmer	⊘	Auto Programs	✓
Outdoor Use	⊘	Auto-ranging Power Supply	✓
Sound Activated	⊘	Replaceable Fuse	✓
DMX	✓	User Serviceable	⊘
Master/Slave	✓	Duty Cycle	⊘

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1. Before you Begin

What is Included

- One COLORado™ Batten 72 Tour
- One power cord
- One safety cable
- Warranty Card
- User Manual

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton. Check the box or flight case contents to ensure that all parts are present and that they are in good condition. If any part appears damaged from shipping, or if the carton show signs of mishandling, notify the shipper immediately. In addition, retain the box and all the packing material for inspection.

In any event, save the carton and all packing material because, in case that you have to return the fixture to the factory, you will have to do so in its original box or flight case, with its original packing. See the *Claims* section in the *Technical Information* chapter.

Typographic Conventions

Convention	Meaning
1~512	A range of values
50/60	A set of mutually exclusive values in the text
[10]	A DIP switch to be configured
Claims	A fixture function, a new term, a section or a chapter
"COLORado™ UM"	The name of another publication or manual
<SET>	A button to be pressed on the fixture's control panel
Settings	A menu option that can be selected but not modified
MENU > Settings	A sequence of menu options to be followed
[1~10]	A range of menu values of which one can be selected
Yes/No	A set of mutually exclusive menu options to choose
ON	A value to be entered or selected

Icons Conventions

Icons	Meaning
	This icon indicates critical installation, configuration, or operation information. Failure to comply with this information may render the fixture partially or completely inoperative, damage third-party equipment, or cause harm to the user.
	This icon indicates important installation or configuration information. Failure to comply with this information may prevent the fixture from functioning correctly.
	This icon indicates useful, although non-critical information.

The term "DMX" used throughout this document refers to the USITT DMX512-A transmission protocol.

Safety Notes

Please read the following notes carefully because they include important safety information about the installation, usage, and maintenance of this product.

It is important to read all these notes before starting to work with this product.

There are no user serviceable parts inside the COLORado™ Batten 72 Tour. Any reference to servicing this unit you may find from now on in this User Manual will only apply to properly CHAUVET® certified technicians. Do not open the housing or attempt any repairs unless you are one of them.

Please refer to all applicable local codes and regulations for proper installation of the COLORado™ Batten 72 Tour.

Keep this manual for future consultation. If you sell the COLORado™ Batten 72 Tour to another user, make sure that they also receive this manual.

Personal Safety

- Avoid direct eye exposure to the light source(s) while they are on.
- Always disconnect the COLORado™ Batten 72 Tour from its power source before servicing.
- Always connect the COLORado™ Batten 72 Tour to a grounded circuit to avoid the risk of electrocution.
- Do not touch the COLORado™ Batten 72 Tour's housing when operating.

Mounting and Rigging

- This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture.
- Make sure there are no flammable materials close to the fixture(s) while operating.
- When hanging this fixture, always secure it to a fastening device using the included safety cable.

Power and Wiring

- Always make sure that you are connecting the COLORado™ Batten 72 Tour to the proper voltage, as per the specifications in this manual or on the product's sticker.
- Never connect the COLORado™ Batten 72 Tour to a dimmer pack.
- Make sure the controller's external voltage adapter housing or cable is not cracked, crimped, or damaged.
- Never disconnect the fixture by pulling or tugging on the power cable.

Operation

- Maximum ambient temperature (Ta) is 104° F (40° C). Do not operate the fixture at a higher temperature.
- In case of a serious operating problem, stop using this product immediately!

In the unlikely event that your COLORado™ Batten 72 Tour may require service, please contact CHAUVET® Technical Support.

Expected LED Lifespan

LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason, using all color LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be of 40,000 to 50,000 hours. If extending this lifespan expectancy is vital, lower the operational temperature by improving fixture ventilation and reducing the external temperature. In addition, limiting the overall projection intensity may also help to extend the LEDs life.

2. Introduction

Product Description

The COLORado™ Batten 72 Tour is RGBW linear LED wash light fixture. It consists of a single module that accommodates the internal power supply, the main control, the control panel, the LED drivers, the LED boards and lenses as well as the power and signal connectors. It features two mounting brackets that double as floor mount feet and hanging support brackets. These brackets have tilt adjust knobs to simplify mounting this fixture.

Features

- 3, 4, 5, 6, 7, 9, 13, or 15-channel RGBWA LED linear wash light
- Operating modes
  - 3-channel: RGB control
  - 3-channel: HSV control (hue, saturation and value)
  - 4-channel: RGB, dimmer
  - 5-channel: RGBWA control
  - 6-channel: RGBWA, dimmer
  - 7-channel: RGBWA, dimmer, strobe
  - 9-channel: RGB for individual block control
  - 13-channel: RGBWA, ID addressing, dimmer, dimmer speed, strobe, macro, auto/custom, and module select
  - 15-channel: RGBWA for individual block control
- Built-in automated programs via DMX
- Recall custom programs via DMX
- RGBWA color mixing with or without DMX control

Additional Features

- Five distinct dimming curves
- Additional power output: max 13 units @ 120 V
- LED display with lock-out feature
- NEUTRIK® powerCON connectors
- 3-pin and 5-pin DMX input and output connectors
- Adjustable feet double as hanging bracket

Options

- Optical systems: 30° (installed), 25º x 6° (CL20x25x6) optional

DMX Channel Summary

TOUR	DMX Channel	Function
	1	Master Dimmer
	2	Red
	3	Green
	4	Blue
	5	White
	6	Amber
	7	Macro + White Balance
	8	Strobe
	9	Auto Programs + Fan
	10	Auto Speed
	11	Dimmer Speed
	12	ID Address
	13	Block Selection

BLOCK1	DMX Channel	Function
	1	Block 1 Red
	2	Block 1 Green
	3	Block 1 Blue
	4	Block 2 Red
	5	Block 2 Green
	6	Block 2 Blue
	7	Block 3 Red
	8	Block 3 Green
	9	Block 3 Blue

BLOCK2	DMX Channel	Function
	1	Block 1 Red
	2	Block 1 Green
	3	Block 1 Blue
	4	Block 1 White
	5	Block 1 Amber
	6	Block 2 Red
	7	Block 2 Green
	8	Block 2 Blue
	9	Block 2 White
	10	Block 2 Amber
	11	Block 3 Red
	12	Block 3 Green
	13	Block 3 Blue
	14	Block 3 White
	15	Block 3 Amber

ARC1	DMX Channel	Function
	1	Red
	2	Green
	3	Blue

ARC1 + D	DMX Channel	Function
	1	Master Dimmer
	2	Red
	3	Green
	4	Blue

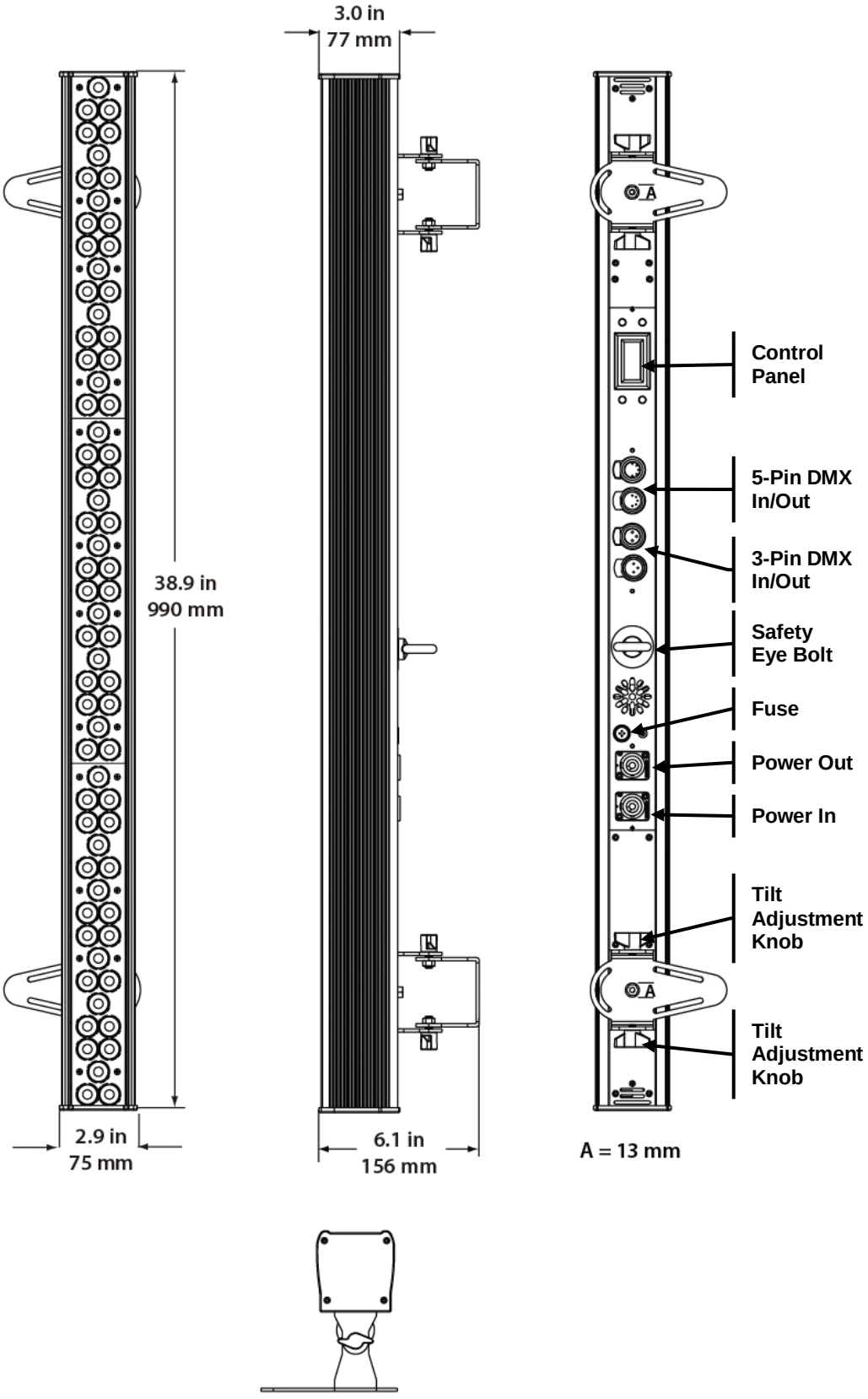
ARC2	DMX Channel	Function
	1	Red
	2	Green
	3	Blue
	4	White
	5	Amber

ARC2 + D	DMX Channel	Function
	1	Master Dimmer
	2	Red
	3	Green
	4	Blue
	5	White
	6	Amber

ARC2 + S	DMX Channel	Function
	1	Master Dimmer
	2	Red
	3	Green
	4	Blue
	5	White
	6	Amber
	7	Strobe

HSV	DMX Channel	Function
	1	Hue
	2	Saturation
	3	Value

Product Overview



3. Setup

AC Power

The COLORado™ Batten 72 Tour has an auto-ranging power supply that can work with an input voltage range of 100~240 VAC, 50/60 Hz.

Make sure that you are connecting this product to the proper voltage, as per the specifications in this guide, the product's user manual or on the product's sticker.

Always connect the COLORado™ Batten 72 Tour to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

To determine the power requirements for the COLORado™ Batten 72 Tour see the label affixed to the side of the fixture. Alternatively, you may refer to the corresponding specifications chart in the *Technical Information* chapter of this manual.

The listed current rating indicates the maximum current draw during normal operation. Please refer to the *Sizing the Circuit Breakers* section in the *Appendix* chapter of this manual.

Never connect the COLORado™ Batten 72 Tour to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

Power Linking

The COLORado™ Batten 72 Tour supports power linking for up to 13 other COLORado™ Batten 72 Tour fixtures at 120 VAC. Each COLORado™ Batten 72 Tour has Neutrik POWERCON sockets for Power In and Power Out. Although the fixture comes with a power input cord, it comes with no power linking cord.

AC Plug

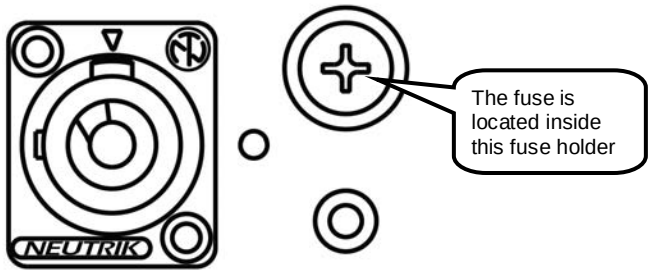
The COLORado™ Batten 72 Tour comes with a power input cord terminated with a NEUTRIK® powerCON A connector on one end and an Edison plug on the other end (US market). If the power cord that came with your fixture has no plug or you need to change the Edison plug, use the table below to wire the new plug.

Connection	Wire (US)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Fuse Replacement

1) With a Phillips #2 head screwdriver, unscrew the fuse holder cap from its housing.
2) Remove the blown fuse and replace it with a good fuse of the same type and rating.
3) Screw the fuse holder cap back in its place and reconnect power.

Make sure to disconnect the fixture's power cord before replacing™ the blown fuse, and always replace it with a fuse of the same type and rating.



Lens Replacement

The COLORado™ Batten 72 Tour comes with the 15° lens assembly pre-installed from the factory. However, there is an optional lens kit (**CL20x25x6**) available as an accessory, which will provide a 25º x 6º beam.

Follow the instructions below to to change or replace the LED lenses.

a) Disconnect the fixture from the AC power before opening it.

b) This procedure gives you direct access to the LEDs, which are very fragile. Use maximum care when handling the lenses over the LED assembly.

The numbers in parenthesis in the procedure below correspond to the parts indicated in the *Exploded View* section of the *Technical Information* chapter.

Procedure

1) Remove the four screws that hold either one of the side covers (10).
2) Remove the side cover.
3) Slide the clear cover (1) out of the way to expose the lens holders (2).
4) Remove the eight screws that hold each of the three lens holders.
5) Remove the lens holders from the fixture.
6) Remove the existing lenses from the lens holders.
7) Insert the new lenses in the lens holders, making sure that you have aligned them properly.
8) Reverse steps “1” to “5” to complete the lens replacement procedure.

DMX Linking

You may link any COLORado™ Batten 72 Tour fixture to a DMX controller using a standard DMX serial connection. If using other DMX compatible fixtures with a COLORado™ Batten 72 Tour fixture, it is possible to control them individually with a single DMX controller.

If you are not familiar with the DMX standard, or if you need information about the DMX cables needed to link the COLORado™ Batten 72 Tour fixture to a DMX controller, you may download the “DMX Primer” document from the CHAUVET® Web site.

The *DMX Channel Summary* section in this chapter contains a brief description of what COLORado™ Batten 72 Tour features have a DMX channel assigned to them. The *Operation* chapter of this manual provides a detailed list of the COLORado™ Batten 72 Tour DMX channel assignments.

DMX Modes

The COLORado™ Batten 72 Tour uses the standard DMX data connection for its DMX modes, TOUR, BLOCK1, BLOCK2, ARC1, ARC + D, ARC2, ARC2 + D, ARC + S, and HSV. You will find information about these DMX modes in the *Introduction* chapter (brief description), the *Operation Instructions* chapter (configuration details), and the *DMX Values* section (individual channel values).

Master/Slave Connectivity

The Master/Slave mode allows a a COLORado™ Batten 72 Tour fixture to control one or more a COLORado™ Batten 72 Tour fixtures without a DMX controller. The controlling fixture becomes the “master” when running an Auto program, a Custom program, or by being in STATIC mode. The controlled fixtures are the “slaves” and you must set them to “SLAVE” mode from their respective control panels. During the Master/Slave operation, the slave fixtures will operate in unison with the master fixture.

The master and slave fixtures link to each other using the standard DMX serial connection. If you are not familiar with the Master/Slave connectivity, you may download the “DMX Primer” document from the CHAUVET® Web site.

DO NOT connect a DMX controller to the fixtures operating in Master/Slave mode. Otherwise, the signals from the DMX controller may interfere with the signals from the master unit.

The *Operation* chapter of this manual provides detailed instructions on how to configure the Master and Slave units.

ID Addressing

The COLORado™ Batten 72 Tour uses the ID Addressing feature to increase the number of addressable fixtures in the same DMX universe when in the **TOUR** personality. Refer to the *Operation* chapter in this manual to learn in detail how to configure the COLORado™ Batten 72 Tour fixtures when using ID Addressing. If you are not familiar with the various connection methods when using ID Addressing, you may download the "DMX Primer" document from the CHAUVET® Web site.

Mounting

Read the safety notes at the beginning of this guide and follow their recommendations before mounting this product.

Orientation

Always mount this fixture in any safe position while making sure that there is adequate room around it for ventilation.

Make sure to mount this fixture away from any flammable material as indicated in the *Safety Notes*.

Rigging

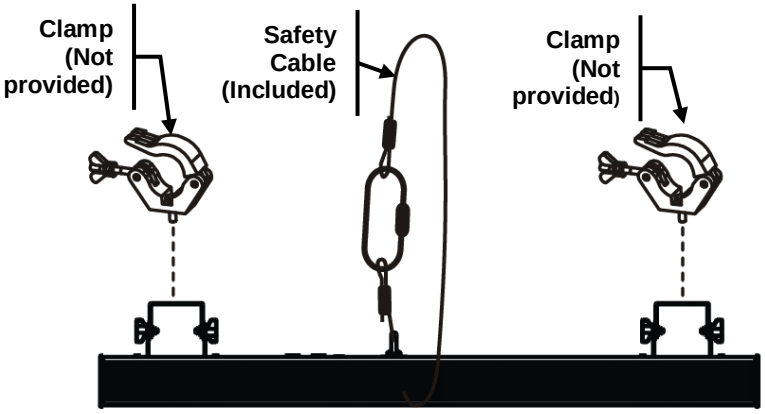
CHAUVET® recommends following the general guidelines below when mounting the COLORado™ Batten 72 Tour.

- When selecting an installation location, consider ease of access to the product for operation, programming adjustments and routine maintenance.
- Always mount this product making sure that there is adequate room around it for ventilation.
- Do not expose this product to extreme temperature changes, rain, or humidity.
- If mounting this fixture overhead, make sure that the location where you are mounting it can support its weight. Please see the *Technical Specifications* section of this guide for the weight requirement of this product.

Procedure

The COLORado™ Batten 72 Tour comes with two adjustable feet that double as hanging bracket to which you can attach "C" or "O" clamps. These feet also serve as floor or wall mount supports. You must supply your own "C" or "O" clamps and make sure that they are capable of supporting the weight of this fixture. You will have to use two mounting points per fixture.

Product Mounting Diagram



Overhead Mounting

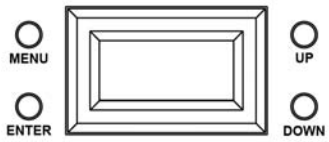
Floor Mounting

4. Operation

Control Panel Description

Button	Function
<MENU>	Exits from the current menu or function
<ENTER>	Enables the currently displayed menu or sets the currently selected value in to the current function
<UP>	Navigates upwards through the menu list and increases the numeric value when in a function.
<DOWN>	Navigates downwards through the menu list and decreases the numeric value when in a function

CONTROL PANEL



Control Options

You can set the COLORado™ Batten 72 Tour start address in the 001~512 DMX range. This allows for the control of up to 39 fixtures in the 13-channel TOUR personality. In addition, the ID address system allows you to assign up to 66 fixtures for each starting DMX address, thus multiplying the number of fixtures you can control within a single universe. You can access the fixture's ID address system from channel 12 when in the TOUR DMX personality.

When programming live performances as well as cues that need to trigger on demand or on a time line, program no more than 10 fixtures on ID addressing per DMX channel. This is to remain within a one-second execution time.

Programming

Carry out all the programming procedures indicated below from the control panel. Refer to the *Menu Map* on page 14 to learn how the menu options relate to each other.

To go to an option, press **<MENU>** repeatedly until the option shows on the display.

To select an option value, press **<UP>** or **<DOWN>** until you see the desired value and press **<ENTER>** to accept it.

To exit to the previous menu level, press **<MENU>**.

DMX Personality

This setting allows the user to choose a particular DMX personality.

1) Go to ***PERSON***.
2) Select the desired personality (**TOUR**, **BLOCK1**, **BLOCK2**, **ARC1**, **AR1 + D**, **ARC2**, **AR2 + D**, **AR2 + S**, or **HSV**).

DMX Control Without ID Addressing

In this mode, each unit will respond to a unique starting address from the DMX controller. All units with the same starting address will respond at unison.

1) Select the ***TOUR*** personality as shown in *DMX Personality*.
2) Set the running mode:
   a) Go to ***RUN***.
   b) Select **DMX**.
3) Set the starting address:
   a) Go to ***ADDRESS***.
   b) Select the starting address (**001~512**).
4) Deactivate ID Addressing in each fixture:
   a) Go to ***SETTINGS***.
   b) Select ***ID ON/OFF***.
   c) Select **OFF**.

Make sure to deactivate ID Addressing in each fixture when using the TOUR personality. Otherwise, unintended results may occur if channel 11 is not set to "0".

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DMX Control With ID Addressing

In this mode, the fixtures with the same DMX starting address will respond to the DMX controller based on the fixture's individual ID address setting. If the user selects ID address "0", all the fixtures with the same DMX address will respond in unison. Otherwise, each fixture will follow the control for its particular ID address.

1) Repeat steps **1**, **2**, and **3** from *DMX Control Without ID Addressing*.
2) Activate ID Addressing in each fixture:
   a) Go to ***SETTINGS***.
   b) Select ***ID ON/OFF***.
   c) Select **ON**.

Static Color

The Static Color mode allows for permanent RGBWA color mixing without a DMX controller.

1) Go to ***STATIC***.
2) Select the desired color (***RED***, ***GREEN***, ***BLUE***, ***WHITE***, or ***AMBER***).
3) Select the desired color value (**0**~**255**).
4) Repeat for the other colors.
5) Select ***STROBE***.
6) Select the desired frequency (**0**~**20**).

Auto Programs

Auto programs allow for dynamic RGBWA color mixing without a DMX controller.

1) Go to ***AUTO***.
2) Select the desired auto program (**AUTO 01**~**10** or **CUSTOM 01**~**10**).

You cannot edit any of the auto programs (AUTO 01~10). However you can edit custom programs CUSTOM 01~10 (see *Edit Customs*).

Edit Customs

This setting allows the programming of up to 30 scenes for each of the 10 customizable programs, including colors and effects.

1) Go to ***EDIT***.
2) Select the desired auto program (***CUSTOM 01~10***).
3) Select the desired scene (***SCENE 01~30***).
4) Select the desired color or effect (***RED***, ***GREEN***, ***BLUE***, ***WHITE***, ***AMBER***, ***STROB*E**, ***TIME,*** or ***FADE***).
5) Select the color or effect value (**000~255** for colors and timers, or **00~20** for Strobe).
6) Repeat for the other colors or effects.
7) Return to the **SCENE** level (step "3").
8) Repeat for the other scenes.

Master/Slave

The Master/Slave mode allows a group of COLORado™ Batten 72 Tour fixtures (the slaves) to execute simultaneously the same program, whether auto or custom, that another COLORado™ Batten 72 Tour fixture (the master) is executing, and without a DMX controller.

1) Set the Master Unit:
   a) Set the running mode to **DMX** as explained in "*DMX Control Without ID Addressing"*
   b) Select an Auto program as explained in "*Auto Programs*".
2) Set the slave units:
   a) Go to ***RUN***.
   b) Select **SLAVE**.

- **The fixture that is set to run a program, whether Auto or Custom, automatically becomes the Master.**
- ***Do not connect a DMX controller to the master or slave fixtures.***

Continues on the next page

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Color Settings

The ***COLOR*** setting determines how the COLORado™ Batten 72 Tour generates the white color based on various RGB settings.

1) Go to ***SETTINGS***.
2) Select ***COLOR***.
3) Select **OFF**, **RGB TO W** or **UC**.

OFF = When RGB are all set to "255", output is maximum.

RGB TO W = When RGB are all set to "255", output is the defined by the configured White color (see *Whites Setting*).

UC = RGB are all set to the produce the same universal color

Dimmer Curves

This setting determines the output of the COLORado™ Batten 72 Tour based on the position of the Red, Green, Blue, White, and Dimmer faders.

1) Go to ***SETTINGS***.
2) Select ***DIMMER***.
3) Select a dimmer curve (**OFF**, **DIM1**, **DIM2**, **DIM3**, or **DIM4**).

- ***When Dim is set to "OFF", the output is proportional (linear) to the Dimmer and RGBW channel values.***
- ***When Dim is set to "DIM1" through "DIM4", the output follows the Dimmer and RGBW channel values based on the corresponding dimmer curve, being DIM1 the fastest and DIM4 the slowest.***

Control Panel Lock

This setting allows the user to activate or disable the control panel lock, which keeps non-authorized personnel from changing the fixture's settings.

1) Go to ***KEYLOCK***.
2) Select **ON** or **OFF**.

When the control panel lock is active, the fixture will prompt the user to enter the password after 30 seconds of control panel inactivity or after turning on the fixture.

After being prompted to enter the password:

1) Press **<UP>**, **<DOWN>**, **<UP>**, **<DOWN>**, and **<ENTER>**

Program Upload

This option allows the user to copy the custom programs of one COLORado™ Batten 72 Tour fixture onto other COLORado™ Batten 72 Tour fixtures by using the Master/Slave method

1) Configure and connect the fixtures in a Master/Slave arrangement, where the master unit has the custom programs you want to transfer onto the slave units.
2) At the master unit, go to ***SETTINGS***.
3) Select ***UPLOAD***.
4) When prompted, enter the master access password as shown in *Control Panel Lock*.
5) When **SEND** shows, press **<ENTER>** to start the upload.
6) Wait for the upload process to finish before disconnecting the fixtures.

- ***During and after the upload, the master and slave units will visually indicate the status of the process, as follows:***
- ***Yellow means that the upload is running.***
- ***Red means that the upload failed due to an error.***
- ***Green means that the upload completed successfully.***

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Reset

This setting allows the user to reset the COLORado™ Batten 72 Tour fixture to its default values, including the custom programs.

1) Go to ***SETTINGS***.
2) Select **RESET**.
3) When prompted, enter the master access password as shown in *Control Panel Lock*.
4) Wait for the reset process to finish.

Default Values

Parameter	Default Value	Parameter	Default Value
STATIC	**000**	***DIMMER***	**DIM4**
ADDRESS	**001**	***COLOR***	**OFF**
RUN	**DMX**	***EDIT***	**000**
PERSON	**TOUR**	***FANS***	**AUTO**
ID	**001**	***KEYLOCK***	**OFF**
ID ON/OFF	**ON**		

Whites Setting

This setting allows the user to select and edit the temperature of the white colors used in channel 7 (Macros) when in the TOUR mode. It also allows the user to define the maximum RGB values when ***RGB to White*** is active.

1) Go to ***CALIB***.
2) Select a white color (**WHITE 1~11**) or **RGB TO W**.
3) Select a color (***RED***, ***GREEN***, ***BLUE***, ***WHITE***, or ***AMBER***).
4) Select a color value (**0~255**).
5) Repeat for the other colors.

When selecting *RGB TO W*, you will only be able to define the values of *RED*, *GREEN,* and *BLUE*.

The values of *RED, GREEN,* and *BLUE* configured from *CALIB > RGB TO W* will define the color temperature shown when the RGB faders are set to "255" if *COLOR > RGB TO W* is active.

Fan Setting

1) Press **<MENU>** repeatedly until ***FANS*** shows, and press **<ENTER>** to accept.
2) Use **<UP>** or **<DOWN>** to select a setting (***OFF***, ***LOW***, ***NORMAL***, ***HIGH*** or ***AUTO***).
3) Press **<MENU>** to exit once done.

- ***When in AUTO, the fan speed automatically changes so the fixture's temperature does not exceed the limit.***
- ***When in the other settings, the fan speed follow the predefine values.***
- ***The internal controller will override any manual setting if the internal temperature rises above a certain level.***

TOUR Notes

These notes intent to clarify the way the TOUR DMX personality works.

Master Dimmer

- Channel 1 controls the intensity of the currently projected color.
- When the slider is at the highest position (**255**) the intensity of the output is at its maximum.

Red, Green, Blue White, and Amber Color Selection

- Channels 2, 3, 4, 5, and 6 control the intensity ratio of each of the Red, Green, Blue, White, and LEDs.
- When the slider is at the highest position (255), the intensity of each color is at its maximum if ***SETTINGS > COLOR*** is **OFF**.
- You can combine channels, 2, 3, 4, 5, and 6 to create over one trillion colors.

Color Macros

- Channel 7 selects the required Color Macro.
- Channel 7 has priority over channels 2, 3, 4, and 5.
- Channel 1 controls the intensity of the Color Macro.

Strobe

- Channel 8 controls the strobe of channels 2~6.

ID Address Selection

- Channel 12 selects the target ID address.
- Each independent DMX address may have up to 66 independent ID addresses.
- An ID address of **0** will activate all ID address locations.

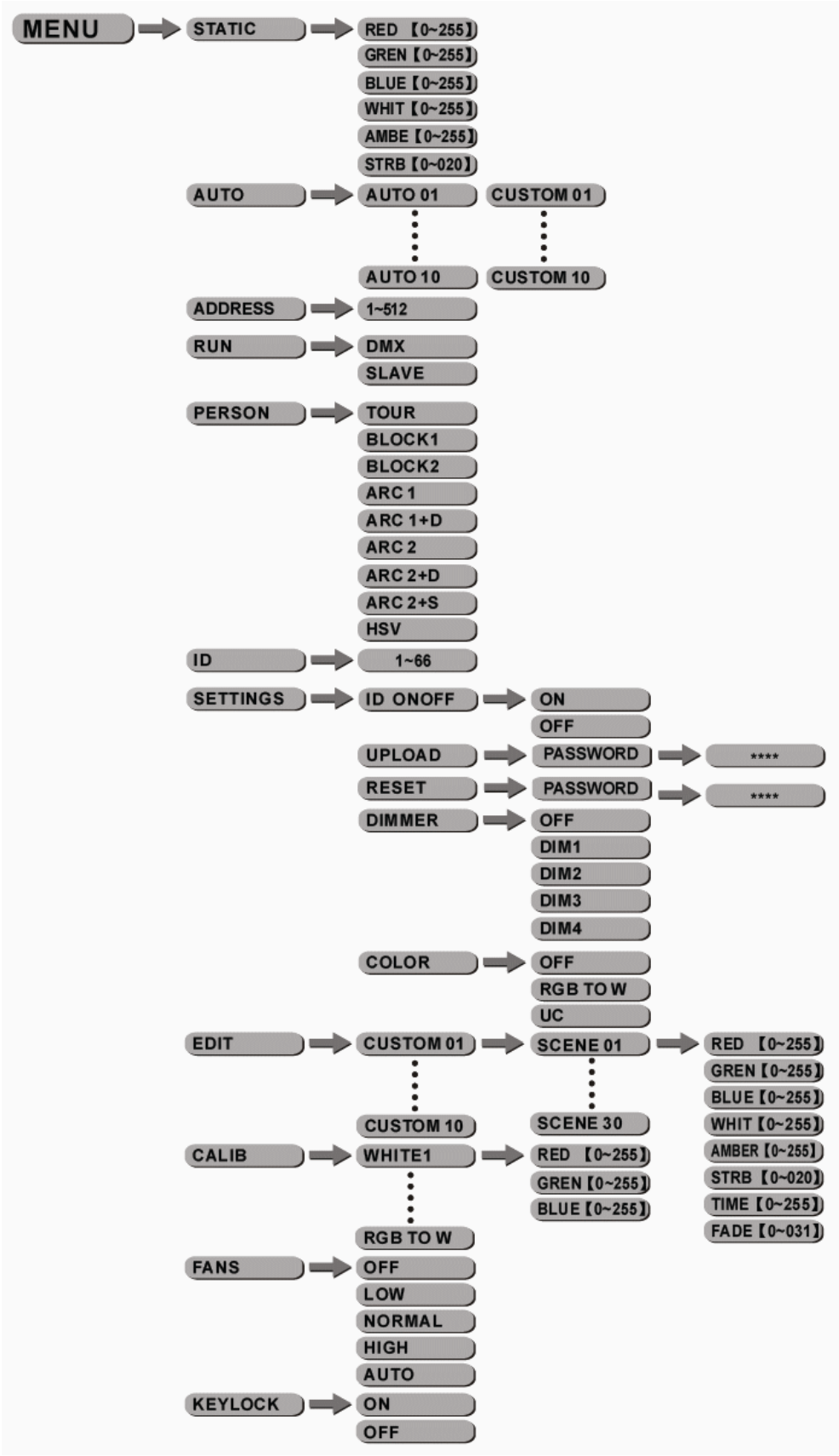
Auto

- Channel 9 selects the preset Auto programs **AUTO 01~10** or the custom programs **CUSTOM 01~10**.
- When activating the custom Auto programs **CUSTOM 01~10**, it is possible to control the Step Time and Fade Time using channels 2 and 3 respectively.
- Channel 9 has priority over channels 2, 3, 4, 5, 6, 7, and 8.

Dimmer Speed

- Channel 10 is for selecting the dimmer mode and speed. When ***DIMMER*** is set to **OFF,** RGBW and Master Dimmer are linear. Otherwise, DIM1 is the fastest dimmer curve, while DIM4 is the slowest.

Menu Map


MENU
STATIC
RED 【0~255】
GREN 【0~255】
BLUE 【0~255】
WHIT 【0~255】
AMBE 【0~255】
STRB 【0~020】
AUTO
AUTO 01
AUTO 10
CUSTOM 01
CUSTOM 10
ADDRESS
1~512
RUN
DMX
SLAVE
PERSON
TOUR
BLOCK1
BLOCK2
ARC 1
ARC 1+D
ARC 2
ARC 2+D
ARC 2+S
HSV
ID
1~66
SETTINGS
ID ONOFF
ON
OFF
UPLOAD
PASSWORD
****
RESET
PASSWORD
****
DIMMER
OFF
DIM1
DIM2
DIM3
DIM4
COLOR
OFF
RGB TO W
UC
EDIT
CUSTOM 01
CUSTOM 10
SCENE 01
SCENE 30
RED 【0~255】
GREN 【0~255】
BLUE 【0~255】
WHIT 【0~255】
AMBER 【0~255】
STRB 【0~020】
TIME 【0~255】
FADE 【0~031】
CALIB
WHITE1
RGB TO W
RED 【0~255】
GREN 【0~255】
BLUE 【0~255】
FANS
OFF
LOW
NORMAL
HIGH
AUTO
KEYLOCK
ON
OFF

DMX Values

TOUR

Channel	Function	Value	Percent/Setting
1	**Dimmer**	000 ⇔ 255	0~100%
2	**Red**	000 ⇔ 255	0~100% (or Step Time if Custom 01~10 in Ch. 9 is active)
3	**Green**	000 ⇔ 255	0~100% (or Fade Time if Custom 01~10 in Ch. 9 is active)
4	**Blue**	000 ⇔ 255	0~100%
5	**White**	000 ⇔ 255	0~100%
6	**Amber**	000⇔ 255	0~100%
7	**Color Macro + White Balance**	000 ⇔ 010	No function
		011 ⇔ 030	R: 100% / G: Up / B: 0%
		031 ⇔ 050	R: Down / G: 100% / B: 0%
		051 ⇔ 070	R: 0% / G: 100% / B: Up
		071 ⇔ 090	R: 0% / G: Down / B: 100%
		091 ⇔ 110	R: Up / G: 0% / B: 100%
		111 ⇔ 130	R: 100% / G: 0% / B: Down
		131 ⇔ 150	R: 100% / G: Up / B: Up
		151 ⇔ 170	R: Down / G: Down / B: 100%
		171 ⇔ 200	R: 100% / G: 100% / B: 100% / W: 100%
		201 ⇔ 205	White 1: 3200 K
		206 ⇔ 210	White 2: 3400 K
		211 ⇔ 215	White 3: 4200 K
		216 ⇔ 220	White 4: 4900 K
		221 ⇔ 225	White 5: 5600 K
		226 ⇔ 230	White 6: 5900 K
		231 ⇔ 235	White 7: 6500 K
		236 ⇔ 240	White 8: 7200 K
		241 ⇔ 245	White 9: 8000 K
		246 ⇔ 250	White 10: 8500 K
		251 ⇔ 255	White 11: 10,000 K
8	**Strobe**	000 ⇔ 009	No function
		010 ⇔ 255	1~20 Hz
9	**Auto + Custom Programs + Fan Control**	000 ⇔ 010	No function
		011 ⇔ 020	Fans Off (Stay 3 s)
		021 ⇔ 030	Fans Low (Stay 3 s)
		031 ⇔ 040	Fans High (Stay 3 s)
		041 ⇔ 050	Fans Normal (Stay 3 s)
		051 ⇔ 060	Fans Auto (Stay 3 s)
		061 ⇔ 070	Auto 1
		071 ⇔ 080	Auto 2
		081 ⇔ 090	Auto 3
		091 ⇔ 100	Auto 4
		101 ⇔ 110	Auto 5
		111 ⇔ 120	Auto 6
		121 ⇔ 130	Auto 7
		131 ⇔ 140	Auto 8
		141 ⇔ 150	Auto 9
		151 ⇔ 160	Auto 10
		161 ⇔ 170	Custom 1
		171 ⇔ 180	Custom 2
		181 ⇔ 190	Custom 3
		191 ⇔ 200	Custom 4
		201 ⇔ 210	Custom 5
		211 ⇔ 220	Custom 6
		221 ⇔ 230	Custom 7
		231 ⇔ 240	Custom 8
		241 ⇔ 250	Custom 9
		251 ⇔ 255	Custom 10
10	**Auto Speed**	000⇔ 255	0~100%
11	**Dimmer Speed**	000 ⇔ 009	Dimmer speed as per Control Panel
		010 ⇔ 029	Linear dimmer
		030 ⇔ 069	Non-linear dimmer 1 (fastest)
		070 ⇔ 129	Non-linear dimmer 2
		130 ⇔ 189	Non-linear dimmer 3
		190 ⇔ 255	Non-linear dimmer 4 (slowest)

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TOUR (Cont.)

Channel	Function	Value	Setting	Value	Setting	Value	Setting
12	**ID Address**	000 ⇔ 009	All IDs	212	ID 23	235	ID 46
		010 ⇔ 019	ID 1	213	ID 24	236	ID 47
		020 ⇔ 029	ID 2	214	ID 25	237	ID 48
		030 ⇔ 039	ID 3	215	ID 26	238	ID 49
		040 ⇔ 049	ID 4	216	ID 27	239	ID 50
		050 ⇔ 059	ID 5	217	ID 28	240	ID 51
		060 ⇔ 069	ID 6	218	ID 29	241	ID 52
		070 ⇔ 079	ID 7	219	ID 30	242	ID 53
		080 ⇔ 089	ID 8	220	ID 31	243	ID 54
		090 ⇔ 099	ID 9	221	ID 32	244	ID 55
		100 ⇔ 109	ID 10	222	ID 33	245	ID 56
		110 ⇔ 119	ID 11	223	ID 34	246	ID 57
		120 ⇔ 129	ID 12	224	ID 35	247	ID 58
		130 ⇔ 139	ID 13	225	ID 36	248	ID 59
		140 ⇔ 149	ID 14	226	ID 37	249	ID 60
		150 ⇔ 159	ID 15	227	ID 38	250	ID 61
		160 ⇔ 169	ID 16	228	ID 39	251	ID 62
		170 ⇔ 179	ID 17	229	ID 40	252	ID 63
		180 ⇔ 189	ID 18	230	ID 41	253	ID 64
		190 ⇔ 199	ID 19	231	ID 42	254	ID 65
		200 ⇔ 209	ID 20	232	ID 43	255	ID 66
		210	ID 21	233	ID 44		
		211	ID 22	234	ID 45		

Channel	Function	Value	Setting
13	**Block Selection**	000 ⇔ 004	Blocks 1, 2 & 3
		005 ⇔ 034	Block 1
		035 ⇔ 064	Block 2
		065 ⇔ 094	Block 3
		095 ⇔ 124	Blocks 1 & 2
		125 ⇔ 154	Blocks 2 & 3
		155 ⇔ 184	Blocks 1 & 3
		185 ⇔ 214	Blocks 1, 2 & 3
		215 ⇔ 255	No Function

BLOCK1

Channel	Function	Value	Percent/Setting
1	**Block 1 - Red**	000 ⇔ 255	0~100%
2	**Block 1 - Green**	000 ⇔ 255	0~100%
3	**Block 1 - Blue**	000 ⇔ 255	0~100%
4	**Block 2 - Red**	000 ⇔ 255	0~100%
5	**Block 2 - Green**	000 ⇔ 255	0~100%
6	**Block 2 - Blue**	000⇔ 255	0~100%
7	**Block 3 - Red**	000⇔ 255	0~100%
8	**Block 3 - Green**	000⇔ 255	0~100%
9	**Block 3 - Blue**	000⇔ 255	0~100%

BLOCK2

Channel	Function	Value	Percent/Setting
1	**Block 1 - Red**	000 ⇔ 255	0~100%
2	**Block 1 - Green**	000 ⇔ 255	0~100%
3	**Block 1 - Blue**	000 ⇔ 255	0~100%
4	**Block 1 – White**	000 ⇔ 255	0~100%
5	**Block 1 - Amber**	000 ⇔ 255	0~100%
6	**Block 2 - Red**	000⇔ 255	0~100%
7	**Block 2 - Green**	000⇔ 255	0~100%
8	**Block 2 - Blue**	000⇔ 255	0~100%
9	**Block 2 – White**	000⇔ 255	0~100%
10	**Block 2 - Amber**	000⇔ 255	0~100%
11	**Block 3 - Red**	000⇔ 255	0~100%
12	**Block 3 - Green**	000⇔ 255	0~100%
13	**Block 3 - Blue**	000⇔ 255	0~100%
14	**Block 3 - White**	000⇔ 255	0~100%
15	**Block 3 - Amber**	000⇔ 255	0~100%

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ARC1

Channel	Function	Value	Percent/Setting
1	Red	000 ⇔ 255	0~100%
2	Green	000 ⇔ 255	0~100%
3	Blue	000 ⇔ 255	0~100%

ARC1 + D

Channel	Function	Value	Percent/Setting
1	Master Dimmer	000 ⇔ 255	0~100%
2	Red	000 ⇔ 255	0~100%
3	Green	000 ⇔ 255	0~100%
4	Blue	000 ⇔ 255	0~100%

ARC2

Channel	Function	Value	Percent/Setting
1	Red	000 ⇔ 255	0~100%
2	Green	000 ⇔ 255	0~100%
3	Blue	000 ⇔ 255	0~100%
4	White	000 ⇔ 255	0~100%
5	Amber	000 ⇔ 255	0~100%

ARC2 + D

Channel	Function	Value	Percent/Setting
1	Master Dimmer	000 ⇔ 255	0~100%
2	Red	000 ⇔ 255	0~100%
3	Green	000 ⇔ 255	0~100%
4	Blue	000 ⇔ 255	0~100%
5	White	000 ⇔ 255	0~100%
6	Amber	000 ⇔ 255	0~100%

ARC2 + S

Channel	Function	Value	Percent/Setting
1	Master Dimmer	000 ⇔ 255	0~100%
2	Red	000 ⇔ 255	0~100%
3	Green	000 ⇔ 255	0~100%
4	Blue	000 ⇔ 255	0~100%
5	White	000 ⇔ 255	0~100%
6	Amber	000 ⇔ 255	0~100%
7	Strobe	000 ⇔ 010 011 ⇔ 255	No function 0~20 Hz

HSV

Channel	Function	Value	Percent/Setting
1	Hue	000 ⇔ 255	0~100%
2	Saturation	000 ⇔ 255	0~100%
3	Value	000 ⇔ 255	0~100%

- **“Hue” refers to the visible light, such as red, yellow, and cyan, etc.**
- **“Saturation” indicates the dominance of hue in the color; when saturation is at 100%, the color is at its purest.**
- **“Value” is the color’s brightness; when value is at 100%, the color is at its brightest.**

5. Technical Information

General Maintenance

To maintain optimum performance and minimize wear, the user should clean the light fixtures frequently. Usage and environment are contributing factors in determining the cleaning frequency. As a rule, the user should clean the fixtures at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

CHAUVET® recommends cleaning the fixture's external optics with a soft cloth using normal glass cleaning fluid.

To clean a fixture, follow the recommendations below:

- Unplug the fixture from power.
- Wait until the fixture is cold.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and reachable internal components.
- Clean all external optics and glass surfaces with a mild solution of glass cleaner or isopropyl alcohol, and a soft, lint free cotton cloth or a lens cleaning tissue.
- Apply the solution directly to the cloth or tissue and drag any dirt and grime to the outside of the lens.
- Gently polish the external glass surfaces until they are free of haze and lint.
- When cleaning units with a movable mirror, you should keep the contact with the mirror surface to a minimum to avoid scratching or damaging it.

Always dry the external optics and glass surfaces carefully after cleaning them.

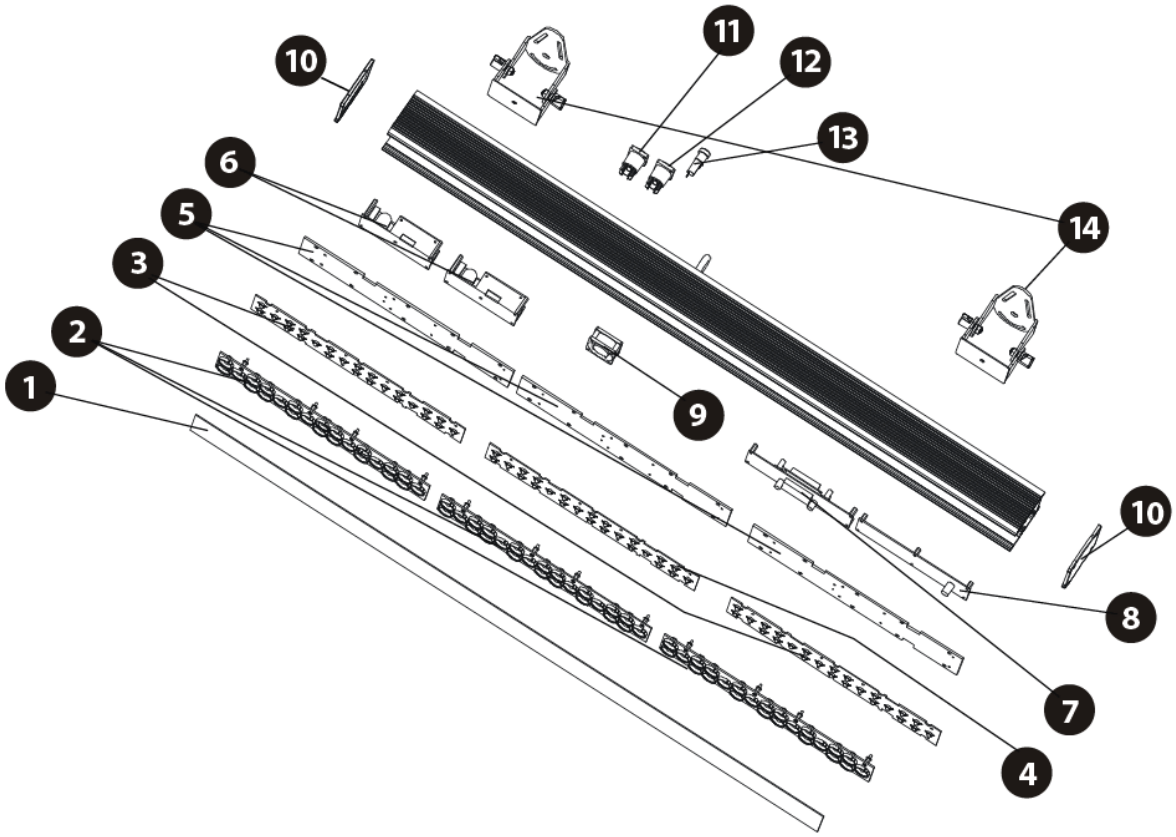
If the fixture has one or more cooling fans, refrain from spinning them using compressed air.

Troubleshooting Guide

Symptom	Cause(s)	Action(s)
General low light intensity	• Dirty lens assembly	• Clean the fixture regularly
	• Misaligned lens assembly	• Install lens assembly properly
A single LED (R, G, B, W, or A) does not illuminate	• Faulty LED	• Replace the LED board
	• Faulty LED board	• Replace the LED board
A group of LEDs (R, G, B, W, or A) does not illuminate	• Faulty LED	• Replace the LED board
	• Faulty LED board	• Replace the LED board
	• Faulty LED driver	• Replace the LED Driver board
None of the LEDs in a module are illuminating	• Faulty LED board	• Replace the LED board
	• Faulty LED Driver board	• Replace the LED Driver board
	• Faulty Display/Main board	• Replace the Display/Main board
Breaker/Fuse keeps blowing	• Excessive circuit load	• Check total load placed on the electrical circuit
	• Short circuit along the power wires	• Check for a short in the electrical wiring
Fixture does not power up	• No power	• Check for power on power outlet
	• Loose or damaged power cord	• Check power cord
	• Blown fuse	• Replace fuse
	• Faulty internal power supply	• Replace internal power supply
Fixture does not respond to DMX	• Wrong DMX addressing	• Check Control Panel and unit addressing
	• Damaged DMX cables	• Check DMX cables
	• Wrong polarity on the controller	• Check polarity switch settings on the controller
	• Loose DMX cables	• Check cable connections
	• Faulty DMX interface	• Replace the Display/Main board
	• Faulty Display/Main board	• Replace the Display/Main board
DMX signal problems	• Non DMX cables	• Use only DMX compatible cables
	• Bouncing signals	• Install terminator as suggested
	• Long cable / low level signal	• Install an optically coupled DMX splitter right after the fixture with the strong signal
	• Too many fixtures	• Install an optically coupled DMX splitter after unit #32 or before
	• Interference from AC wires	• Keep DMX cables separated from power cables or fluorescent/black lights

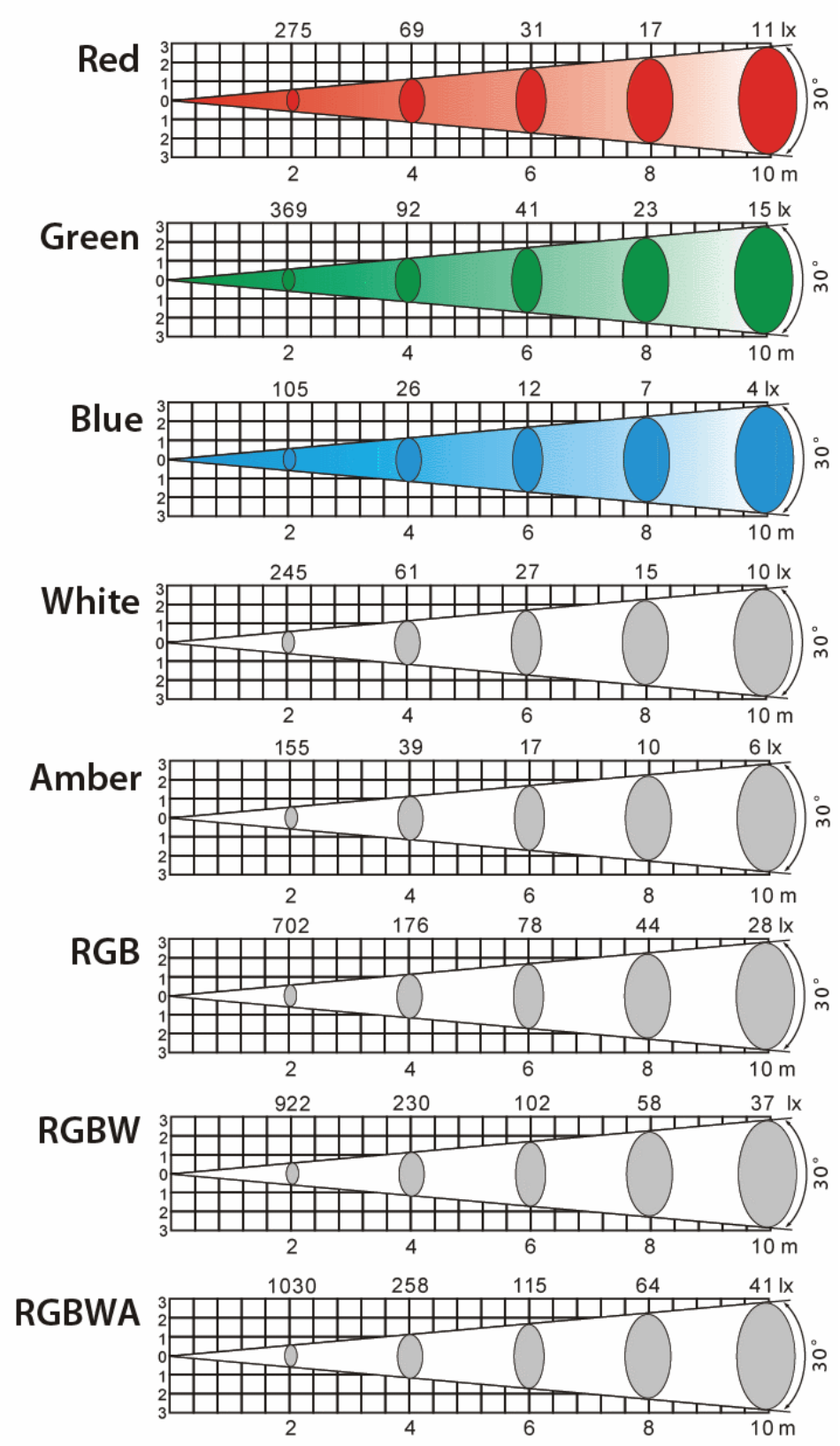
If you still experience technical problems after trying the above solutions, contact CHAUVET® Technical Support.

Exploded View



Item	Description
1	Clear front plate
2	Complete lens set
3	LED board A
4	LED board B
5	Heat sink board
6	Power supply
7	Display board
8	LED driver board
9	Fan
10	Side cover
11	Power output socket (white)
12	Power input socket (blue)
13	Fuse holder
14	Support bracket

Photometric Data



Returns Procedure

The user must send the merchandise prepaid, in the original box, and with its original packing and accessories. CHAUVET® will not issue call tags.

Call CHAUVET® and request a Return Merchandise Authorization Number (RMA #) before shipping the fixture. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

The user must clearly label the package with a Return Merchandise Authorization Number (RMA #). CHAUVET® will refuse any product returned without an RMA #.

DO NOT write the RMA # directly on the box. Instead, write it on a properly affixed label.

Once you are given an RMA #, please include the following information on a piece of paper inside the box:

- Your name
- Your address
- Your phone number
- The RMA #
- A brief description of the symptoms

Be sure to pack the fixture properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).

Claims

The shipper is responsible for any damage incurred during shipping. Therefore, if the merchandize appears damaged due to shipping, the customer's must submit the damage report and any related claims with the carrier, not CHAUVET®. The customer must submit the report upon reception of the damaged merchandise. Failure to do so in a timely manner may invalidate the customer's claim with the carrier.

For other issues such as missing components or parts, damage not related to shipping, or concealed damage, the customer must made claims to CHAUVET® within seven (7) days of receiving the merchandise.

Contact Us

World Headquarters

General Information

CHAUVET®
5200 NW 108th Avenue
Sunrise, FL 33351
Voice: (954) 929-1115
Fax: (954) 929-5560
Toll free: (800) 762-1084

Technical Support

Voice: (954) 929-1115 (Press **4**)
Fax: (954) 929-3716

World Wide Web

www.chauvetlighting.com

Technical Specifications

Weight & Dimensions

Length	38.9 in (989 mm)
Width	3.0 in (77 mm)
Height	6.1 in (156 mm)
Weight	9.8 lbs (4.4 kg)

Power

Auto-ranging	100~240 VAC, 50/60 Hz
Power Consumption @ 120 V	72 W (1.067 A)
Power Consumption @ 230 V	71 W (0.568 A)
Inrush Current	0.4 A @ 120 V, 0.8 A@ 230 V
Power Linking	13 units max @ 120 V
Power Connectors	NEUTRIK® powerCON connectors

Light Source

Type	1 W, 350 mA, 50,000 hrs LEDs
Configuration	72 LEDs (18 Red, 18 Green, 18 Blue, 9 White, and 9 Amber)

Photometrics

Installed optics:	30º
Beam angle:	40.1º
Field angle:	54.8º
Illuminance:	1,300 lux @ 2 m

Thermal

Maximum ambient temperature	104° F (40° C)

Control & Programming

Data input	Locking 3-pin or 5-pin XLR male socket
Data output	Locking 3-pin or 5-pin XLR female socket
Data pin configuration	Pin 1 shield, pin 2 (-), pin 3 (+)
Protocols	USITT DMX512-A
DMX Channels	3, 4, 5, 6, 7, 9, 13, or 15

Ordering Information

COLORado™ Batten 72 Tour	COLORADOBATTEN72TOUR

Warranty Information

Warranty	2-year limited warranty

CHAUVET®
5200 NW 108th Avenue
Sunrise, FL 33351 (USA)
(800) 762-1084 – (954) 929-1115
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COLORado™ Batten 72 Tour User Manual Rev. 01d
August 2010

It's Green Thinking